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#### MENORANDUM FOR THE RECORD

SUBJECT : Model 220 Tracker - Status and Operational Cutline

Status of Model 220 tracker systems for Ope-INS test checking:

- 1. 4- Model 220 tracker camera's with electric clock, frame marker and 80 mm lens.
  - 6- 70 mm magazines for Sodel 220 tracker units.
  - 4- Intervalometer boxes with driver panel control; 6, 12, 13 second timing.
  - 4- Driver Panels with run, two minute operate and mark modes.
  - 4- Radio interference filters.

25X1A

25X1A

- 4- Interconnecting cables.
- 2. Equipment has been delivered to the

Tracker Camera:

2-	Tracker	Units		locate-	Bluk	120	c
1	7#	•		<b>→</b> [			pitie
È	**	**	14. 14.	nie.	•		for
					clock	***	San i v

Magazines:

5- Magazine Units LocateMaterial 70mm:
Locate-

- Supply

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	latervalometers:		25X1A		
	2- Intervalometer	Units Locate-			
	controlled from	rked automaticall	pecial frame		
	2- Intervalometer	Units Locate-			
	by the criver p	lies. Intervalor manel. May Wode a interconnection	dvarces one		
	Shock Sounted France:		25X1A		
25X1A	2- Frances	Locate			
	to the state of th	Locate-	otiice		
	J	Locate	To be dellvered.		
	Driver Control Panel:		25X1A		
	3- Paneis	Locate-			
	for use with th	e standard interv	25X1A		
	1- Panel	locate-			
	Altered for ber boxes.	nch testing modifi	ed intervalometer		
	Radio Interference Fil	iters:	25X1A		
	d- Filters	locate-			
	Intervalemeter-Filter	Intercennecting (	** 25% fA		
	4- Cables	Locate	•		

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Vehicle Interisce Cable:

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t- Cubie

To be used with no partend and Type and hatch. Additional cables to be provided as

required. ( Interface cable to be used with Type II equipment to be (abricated when the Type II configuration equipment is Installed. )

Locate-

Lower match, Type III:

1- latch

Locate- Vehicle Shop

Tracker brackets installed, no windows available at this time.

The first tracker unit has been ground checked in Article 127. (Note: The required vehicle and INS wiring changes have been completed in Article 127 ONLY.) If the 25X1A tracker system is to be used before the return of the Type II package field crew, installation of the tracker 25X1A whould be coordinated with **A**Bti

General outline of the tracker installation: 4.

- The tracker system may only be installed in the vehicles which have the required vehicle and INS wiring changes.
- **6** Type III lower hatch with special support bracket should be sade ready the day before a flight. Tracker camera, shock sounted frame, radio filter, intervelometer box and interconnecting cable should be placed on the hatch.
- 2.5 The camera electric clock should be time hacked with Ops reference.
- Select and install desired lens filter. When using Type 4400 material, the yellow filter will normally be used. Set exposure time for 1/500 second. F/8 setting is recommended for initial testing of the system.

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- 5. Select the desired intervaloacter time of 6, 12, or 18 seconds with the associated time switch.
- 6. Install interface cable in the Q bay. Connectors Q4, Q5, and Q6 should be sated, and the cable secured in place.
- 7. The tracker magazine should be loaded with a 190 toot roll ow 70mm Type 4400 material in Ride 20 by the Type II or Process personnel.

  After the magazine has been loade to the bangar and mated with the tracker camera on the lower batch.
- 3. Clean inside surface of window and camera lens and filter with soft cloth and a one to one solution of alcohol and water.
- Fring lower batch into position under the Q bay and raise to a point where there is room remaining to reach in the all one of the assembly and mate the tracker-vehicle interface cable with the intervalementer box. (Note. Once the interface connector is mated with the intervalement box, the equipment will eperate sutematically when ever the Nav Mode signal is present from the IMS equipment.)
- 10. Close and secure the bottom hatch assembly.
- Il. The tracker camera requires the following inputs in orner to operate. Hence, the associates circuit breakers must be closed.
  - a. Phase A, 400 cycle power from inverter #2 (Q bey breakers)
  - b. 28 V DC to Q bay from the TE supply.
  - c. Nav, Store and VON lines from the INS
- 12. Clear external surface of the tracker window.

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- 13. Operation of the camera is automatic. When the INS Nav Mode is initiated the camera will start, and continue to be sequenced by the intervalometer until the Nav Mode is terminated. Material supply is equivalent to approximately 910 frames. When the Fix-Store button is depressed, the camera will automatically advance one frame, and a special frame mark will be recorded on this frame. The time clock is recorded on all frames.
- 14. No tracker camera malfanction indication is provided for the driver.

At the end of the mission, the tracker should be unloaded as follows:

- 1. Lower the bottom hatch until the intervalometer mating connector can be reached from the aft end of the hatch. Remove connector.
- 2. Remove film magazine and forward to Bldg 120 E for processing. (Processing Note. Material Type 4400, Size 70mm by 190 foot, process "full" with observer control when required)
- 3. Replace protection covers on film magazine and camera shutter assembly. Cover on shutter assembly is most important because of the extremely fragile focal plane shutter curtains.
- 4. Remove vehicle interface cable from Q bay and store.
- 5. If the special tracker lower hatch is to be stored any place other than in Bldg 120, it is recommended that the tracker camera be removed from the lower hatch mounting frame and stored in the Ops building or in

6. Cover windows with breakage protection cover. Cover intervalometer box, tracker and frame with plastic or cloth for storage.

Evaluation of the processed material to be coordinated with the Ops and INS groups.

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5. Modification of the remaining intervalometer boxes, lens change, etc. may be coordinated through

Wiring schematic of the vehicle interface cable is enclosed for reference.

An additional instruction manual, trouble shooting and maintenance manual will be provided within 30 days. Manual completion delay has been caused by the changing tracker system and equipment specifications.

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/OSA:jlf (10 October 1963)

Cy 1 - AD/OSA

- 2 D/TECH/OSA
  - 3 CD/OSA
  - 4 MD/OSA
  - 5 D/FA/OSA
- 6 OD/OSA
- 7 PS/OSA
- 8 DD/OSA
- 9 DD/OSA (chrono)
- 10 RB/OSA

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